

Supplemental Table 1. Age adjusted relationships between demographic variables and injury history in the full sample.

	Any injury OR (95% CI)	Any injury p-value	Severe injury OR (95% CI)	Severe injury p-value
Dog demographics				
Height & Weight together		0.010 ^a		0.26
Dog Height (per 4 inches taller)	1.05 (0.94, 1.18)		1.08 (0.92, 1.27)	
Dog Weight (per 10 pounds heavier)	1.03 (0.96, 1.10)		0.99 (0.90, 1.09)	
Breed		<0.001 ^a		<0.001 ^a
Border Collie	1.91 (1.63, 2.24)		1.74 (1.42, 2.14)	
Mixed Breed	1.02 (0.83, 1.24)		0.84 (0.63, 1.12)	
Shetland Sheepdog	1.05 (0.81, 1.37)		0.95 (0.65, 1.38)	
Australian Shephard	1.01 (0.77, 1.31)		0.70 (0.47, 1.06)	
Other	REFERENCE		REFERENCE	
Country/Region		<0.001 ^a		0.49
United States	REFERENCE		REFERENCE	
Canada	1.04 (0.83, 1.30)		0.85 (0.62, 1.16)	
UK / Ireland	1.32 (1.07, 1.61)		1.08 (0.81, 1.43)	
Cont. Europe	1.34 (1.06, 1.69)		0.85 (0.60, 1.21)	
Australia	1.76 (1.27, 2.43)		1.21 (0.79, 1.86)	
Other	1.47 (1.13, 1.91)		1.20 (0.84, 1.72)	
Age brought dog home		0.007 ^a		0.21
<8 weeks	0.98 (0.84, 1.16)		0.90 (0.72, 1.13)	
8-12 weeks	REFERENCE		REFERENCE	
13-15 weeks	0.99 (0.75, 1.31)		1.05 (0.72, 1.53)	
4-6 months	0.87 (0.66, 1.15)		1.05 (0.73, 1.52)	
7-12 months	0.91 (0.69, 1.20)		0.95 (0.65, 1.38)	
>12 months	0.62 (0.49, 0.79)		0.65 (0.46, 0.91)	
How acquired		0.059 ^a		0.39
Breeder	REFERENCE		REFERENCE	
Rescue / Shelter	0.82 (0.69, 0.97)		0.85 (0.62, 1.15)	
Other	1.01 (0.81, 1.24)		0.88 (0.70, 1.11)	

	1.26)		1.12)	
Acquired w/agility in mind		0.08 ^a		0.09 ^a
No	0.88 (0.77, 1.02)		0.85 (0.70, 1.03)	
Yes	REFERENCE		REFERENCE	
Agility main sport focus		0.016 ^a		0.22
Yes	REFERENCE		0.99 (0.79, 1.24)	
Mostly	1.03 (0.88, 1.21)		1.29 (0.96, 1.74)	
No	0.72 (0.57, 0.91)		REFERENCE	
Sex / Neuter status		0.50		0.70
Male, Intact	REFERENCE		REFERENCE	
Female, Intact	0.88 (0.69, 1.13)		1.02 (0.71, 1.48)	
Male, Neutered <10 months	1.07 (0.82, 1.39)		1.16 (0.81, 1.66)	
Male, Neutered 10-18 months	0.95 (0.75, 1.20)		0.88 (0.62, 1.24)	
Male, Neutered >24 months	0.92 (0.71, 1.19)		0.96 (0.67, 1.37)	
Female, Spayed <1 cycle	1.17 (0.92, 1.49)		1.20 (0.87, 1.66)	
Female, Spayed 1 cycle	0.97 (0.74, 1.27)		0.95 (0.65, 1.39)	
Female, Spayed >1 cycle	1.02 (0.81, 1.29)		1.04 (0.75, 1.44)	
Front dew claws		0.008 ^a		0.016 ^a
Intact	REFERENCE		REFERENCE	
Removed	0.83 (0.72, 0.95)		0.85 (0.70, 1.03)	
Unknown	0.61 (0.36, 1.03)		0.28 (0.10, 0.78)	
Rear dew claws		0.69		0.56
Intact	0.95 (0.81, 1.12)		0.88 (0.70, 1.11)	
Removed or born without	REFERENCE		REFERENCE	
Unknown	0.89 (0.64, 1.24)		0.92 (0.59, 1.45)	
Docked tail		0.001 ^a		0.007 ^a
Yes	0.74 (0.63, 0.88)		0.72 (0.57, 0.92)	
No / unknown	REFERENCE		REFERENCE	
Growth plate x-rays		0.007 ^a		0.001 ^a
Not done	REFERENCE		REFERENCE	
Done at least once	1.25 (1.06, 1.47)		1.43 (1.16, 1.77)	
Handler demographics				
Handler current age		<0.001 ^a		0.001 ^a

18-24	REFERENCE		REFERENCE
	1.15 (0.83,		0.86 (0.54,
25-34	1.59)		1.34)
	1.19 (0.86,		1.03 (0.66,
35-44	1.66)		1.60)
	1.02 (0.75,		0.97 (0.63,
45-54	1.41)		1.49)
	0.87 (0.64,		0.70 (0.46,
55-64	1.19)		1.07)
	0.57 (0.40,		0.55 (0.35,
65+	0.79)		0.88)
Handler gender		0.43	0.64
Female	REFERENCE		REFERENCE
	0.85 (0.64,		0.82 (0.54,
Male	1.14)		1.23)
	0.80 (0.43,		0.99 (0.44,
Other gender identity	1.47)		2.26)
Handler education		0.51	0.043 ^a
Graduate or professional degree	REFERENCE		REFERENCE
	1.10 (0.94,		1.07 (0.86,
4-year college	1.29)		1.33)
	1.20 (0.96,		1.42 (1.07,
2-year college	1.49)		1.88)
	1.04 (0.85,		0.83 (0.62,
Some college	1.27)		1.11)
	1.10 (0.88,		1.02 (0.74,
HS degree (or less)	1.38)		1.41)
Handler profession		<0.001 ^a	0.009 ^a
Not a dog trainer	REFERENCE		REFERENCE
	1.36 (1.17,		1.25 (1.03,
Paid trainer, not primary job	1.57)		1.53)
	1.32 (1.05,		1.46 (1.09,
Professional trainer	1.66)		1.97)
Handler medical training / experience		0.062 ^a	0.003 ^a
None of these	REFERENCE		REFERENCE
Veterinarian	0.64 (0.45,		0.81 (0.48,
	0.92)		1.37)
	0.83 (0.55,		1.12 (0.66,
Licensed vet tech	1.25)		1.93)
	1.34 (0.89,		2.45 (1.53,
Veterinary assistant	2.02)		3.93)
Human health care professional	0.94 (0.78,		1.20 (0.94,
	1.13)		1.55)
Handler agility experience		0.018 ^a	0.066 ^a
	0.96 (0.75,		0.56 (0.36,
<3 years	1.23)		0.87)
	1.14 (0.94,		1.09 (0.84,
3-5 years	1.38)		1.42)

6-10 years	1.27 (1.07, 1.50)		0.95 (0.76, 1.19)	
11-15 years	1.26 (1.04, 1.53)		1.05 (0.82, 1.35)	
>15 years	REFERENCE		REFERENCE	
Handler competed at national level		<0.001 ^a		0.060 ^a
No	REFERENCE		REFERENCE	
Yes	1.27 (1.12, 1.44)		1.19 (0.99, 1.42)	
Handler competed at international level		<0.001 ^a		0.55
No	REFERENCE		REFERENCE	
Yes	1.47 (1.20, 1.80)		1.09 (0.83, 1.44)	

^ap<0.20 and included in initial adjusted model

Supplemental Table 2. Age adjusted relationships between demographic variables and injury history in the North American (NA) and non-North American (non-NA) samples.

	North American OR (95% CI)	NA p-value	Non-NA OR (95% CI)	Non-NA p-value
Dog demographics				
Height & Weight together		0.028 ^a		0.19 ^a
Dog Height (per 4 inches taller)	1.04 (0.90, 1.20)		1.02 (0.84, 1.23)	
Dog Weight (per 10 pounds heavier)	1.04 (0.95, 1.13)		1.07 (0.94, 1.21)	
Breed		<0.001 ^a		<0.001 ^a
Border Collie	1.70 (1.39, 2.07)		2.23 (1.69, 2.93)	
Mixed Breed	0.85 (0.67, 1.08)		1.46 (1.03, 2.07)	
Shetland Sheepdog	1.07 (0.79, 1.45)		1.01 (0.61, 1.70)	
Australian Shephard	0.95 (0.71, 1.27)		1.47 (0.77, 2.81)	
Other	REFERENCE		REFERENCE	
Country/Region		0.74		0.45
United States	REFERENCE			
Canada	1.02 (0.91, 1.14)			
UK / Ireland			REFERENCE	
Cont. Europe			1.02 (0.76, 1.35)	
Australia			1.33 (0.92, 1.92)	

Other			1.12 (0.82, 1.53)	
Age brought dog home		0.004 ^a		0.55
<8 weeks	0.95 (0.78, 1.16)		1.06 (0.79, 1.41)	
8-12 weeks	REFERENCE		REFERENCE	
13-15 weeks	1.14 (0.81, 1.58)		0.72 (0.42, 1.22)	
4-6 months	0.91 (0.65, 1.27)		0.79 (0.48, 1.32)	
7-12 months	1.01 (0.74, 1.39)		0.69 (0.38, 1.25)	
>12 months	0.57 (0.43, 0.75)		0.93 (0.57, 1.51)	
How acquired		0.077 ^a		0.78
Breeder	REFERENCE		REFERENCE	
Rescue / Shelter	1.04 (0.79, 1.36)		0.93 (0.64, 1.35)	
Other	0.80 (0.65, 0.98)		0.90 (0.65, 1.25)	
Acquired w/agility in mind		0.034 ^a		0.44
No	0.83 (0.70, 0.99)		0.91 (0.71, 1.16)	
Yes	REFERENCE		REFERENCE	
Agility main sport focus		0.035 ^a		0.58
Yes	REFERENCE		REFERENCE	
Mostly	1.03 (0.85, 1.24)		1.09 (0.81, 1.48)	
No	0.71 (0.54, 0.93)		0.83 (0.52, 1.33)	
Sex / Neuter status		0.30		0.61
Male, Intact	REFERENCE		REFERENCE	
Female, Intact	0.77 (0.56, 1.07)		1.03 (0.69, 1.53)	
Male, Neutered <10 months	1.08 (0.79, 1.48)		1.09 (0.66, 1.80)	
Male, Neutered 10-18 months	0.95 (0.71, 1.26)		1.00 (0.65, 1.54)	
Male, Neutered >24 months	0.83 (0.61, 1.14)		1.25 (0.78, 1.99)	
Female, Spayed <1 cycle	1.11 (0.84, 1.48)		1.49 (0.95, 2.32)	
Female, Spayed 1 cycle	0.91 (0.65, 1.27)		1.05 (0.67, 1.64)	
Female, Spayed >1 cycle	1.08 (0.81, 1.43)		0.90 (0.59, 1.38)	
Front dew claws		0.33		0.063 ^a
Intact	REFERENCE		REFERENCE	
Removed	0.95 (0.81, 1.11)		0.62 (0.39, 0.97)	

Unknown	0.63 (0.33, 1.20)		0.60 (0.25, 1.43)	
Rear dew claws		0.74		0.096 ^a
Intact	0.95 (0.75, 1.19)		0.76 (0.59, 0.98)	
Removed or born without	REFERENCE		REFERENCE	
Unknown	0.87 (0.59, 1.31)		0.83 (0.47, 1.47)	
Docked tail		0.054 ^a		0.035 ^a
Yes	0.84 (0.70, 1.00)		0.55 (0.31, 0.96)	
No / unknown	REFERENCE		REFERENCE	
Growth plate x-rays		0.003 ^a		0.15 ^a
Not done	REFERENCE		REFERENCE	
Done at least once	1.32 (1.10, 1.59)		1.31 (0.91, 1.88)	
Handler demographics				
Handler current age		<0.001 ^a		0.15 ^a
18-24	REFERENCE		REFERENCE	
25-34	1.09 (0.67, 1.77)		1.29 (0.83, 2.01)	
35-44	1.28 (0.79, 2.07)		1.17 (0.74, 1.84)	
45-54	1.18 (0.74, 1.87)		0.91 (0.58, 1.44)	
55-64	0.95 (0.60, 1.49)		1.01 (0.63, 1.62)	
65+	0.62 (0.38, 0.99)		0.70 (0.39, 1.27)	
Handler gender		0.08 ^a		0.81
Female	REFERENCE		REFERENCE	
Male	0.68 (0.46, 0.99)		1.10 (0.69, 1.76)	
Other gender identity	0.67 (0.32, 1.39)		1.37 (0.41, 4.63)	
Handler education		0.50		0.54
Graduate or professional degree	REFERENCE		REFERENCE	
4-year college	1.11 (0.92, 1.33)		1.16 (0.85, 1.59)	
2-year college	1.15 (0.90, 1.48)		1.48 (0.94, 2.32)	
Some college	0.99 (0.78, 1.26)		1.12 (0.78, 1.61)	
HS degree (or less)	0.88 (0.63, 1.24)		1.13 (0.82, 1.57)	
Handler profession		0.10 ^a		<0.001 ^a
Not a dog trainer	REFERENCE		REFERENCE	
Paid trainer, not primary job	1.18 (0.98, 1.41)		1.61 (1.25, 2.06)	

Professional trainer	1.23 (0.95, 1.60)		1.78 (1.09, 2.89)	
Handler medical training / experience		0.33		0.15 ^a
None of these	REFERENCE		REFERENCE	
Veterinarian	0.69 (0.45, 1.07)		0.53 (0.28, 1.02)	
Licensed vet tech	0.97 (0.62, 1.51)		0.50 (0.17, 1.49)	
Veterinary assistant	1.38 (0.84, 2.28)		1.24 (0.59, 2.59)	
Human health care professional	1.03 (0.83, 1.28)		0.80 (0.55, 1.16)	
Handler agility experience		0.003 ^a		0.89
<3 years	0.87 (0.62, 1.21)		0.86 (0.57, 1.29)	
3-5 years	1.18 (0.93, 1.49)		0.88 (0.62, 1.24)	
6-10 years	1.38 (1.13, 1.68)		0.91 (0.65, 1.26)	
11-15 years	1.33 (1.06, 1.65)		1.02 (0.69, 1.49)	
>15 years	REFERENCE		REFERENCE	
Handler competed at national level		0.007 ^a		0.022 ^a
No	REFERENCE		REFERENCE	
Yes	1.24 (1.06, 1.44)		1.31 (1.04, 1.66)	
Handler competed at international level		0.21		0.008 ^a
No	REFERENCE		REFERENCE	
Yes	1.21 (0.90, 1.64)		1.48 (1.11, 1.97)	

^ap<0.20 and included in initial adjusted model